

08/433646

08/433646



56

ABSTRACT OF THE DISCLOSURE

A fimbrial agglutinogen preparation is prepared from a *Bordetella* strain, particularly a *B. pertussis* strain, by a multiple step procedure involving extraction of the fimbrial agglutinogens from cell paste and concentrating and purifying the extracted material. The fimbrial agglutinogen preparation may be used to prepare acellular pertussis vaccines with other pertussis antigens, including pertussis toxin or toxoid thereof, the 69 kDa protein and filamentous hemagglutinin and other *Bordetella* antigens.